

**To:** Bernard, Nancy (DOH)[Nancy.Bernard@DOH.WA.GOV]  
**Cc:** 'azych@snohd.org'[azych@snohd.org]; Ketchel, Jeff (DOHi)[jketchel@snohd.org]  
**From:** Mullin, Michelle  
**Sent:** Thur 6/9/2016 4:29:08 PM  
**Subject:** RE: Epoxy Encapsulant ORD Study

Nancy-

I wanted to share the recommendation with you first, since you had specific questions and concerns, in case you wanted to modify the recommendation. I was going to reach out to the Snohomish Health District next, but I see you copied them on your response to me, so Amanda and Jeff, if you have any comments on the recommendation for epoxy noted below, please let me know today. And I will share the information with the school next.

Thanks,

## **Michelle Mullin**

### PCB Coordinator

US EPA Region 10

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### **NOTE NEW MAILING ADDRESS**

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[mullin.michelle@epa.gov](mailto:mullin.michelle@epa.gov)

206-553-1616

[www.epa.gov/region10/pcb.html](http://www.epa.gov/region10/pcb.html)

**From:** Bernard, Nancy (DOH) [mailto:Nancy.Bernard@DOH.WA.GOV]  
**Sent:** Wednesday, June 08, 2016 6:28 PM  
**To:** Mullin, Michelle <Mullin.Michelle@epa.gov>  
**Cc:** 'azych@snohd.org' <azych@snohd.org>; Ketchel, Jeff (DOHi) <jketchel@snohd.org>  
**Subject:** RE: Epoxy Encapsulant ORD Study

Thank you Michelle,

No I do not have further questions. I assume this information is being provided to Monroe School District to assist them in choosing the best sealant?

Nancy

**From:** Mullin, Michelle [<mailto:Mullin.Michelle@epa.gov>]  
**Sent:** Friday, June 03, 2016 4:36 PM  
**To:** Bernard, Nancy (DOH) <[Nancy.Bernard@DOH.WA.GOV](mailto:Nancy.Bernard@DOH.WA.GOV)>  
**Subject:** Epoxy Encapsulant ORD Study

Hi Nancy-

I wanted to get back with you regarding your question about encapsulant with no/low VOCs for use over PCB contaminated caulk.

ORD complete research on this topic in 2010. As we stated on the phone call, In general, epoxy coatings that were tested had the best performance in the research. You wondered if we had any further data regarding VOC-levels for epoxies, and on the call we could not recite that information.

Here is a link to the research fact sheet on encapsulation:

[https://www.epa.gov/sites/production/files/2015-08/documents/pcb\\_encapsulation\\_fs.pdf](https://www.epa.gov/sites/production/files/2015-08/documents/pcb_encapsulation_fs.pdf)

Here is a link the research report with more details:

<https://www.epa.gov/sites/production/files/2015-08/documents/p100fa51.pdf>

You can see on pages 8 and 13 of the report that Epoxy- no solvent performed the best of the three tested epoxies. The Epoxy- low VOC performed the most poorly of the three epoxies, which was still significantly better than the other sealants tested.

For best performance to control migration of PCBs, the no-solvent Epoxy is recommended. Do you have any specific recommendations you would make to the school based on this information?

**Michelle Mullin**

PCB Coordinator

US EPA Region 10

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